

ductruong

***** STN Columbus *****

*GEOREF - Geological Reference File 1785-present

* The files listed above are temporarily unavailable.

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=> file pnttext

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.22

FILE 'EPFULL' ENTERED AT 10:21:19 ON 25 JAN 2010

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FILE 'USPATFULL' ENTERED AT 10:21:19 ON 25 JAN 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 10:21:19 ON 25 JAN 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 10:21:19 ON 25 JAN 2010

CA INDEXING COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

=> s proton conducting polymer membrane#

L1 431 PROTON CONDUCTING POLYMER MEMBRANE#

=> s l1 and sulfonated polymer# and benzimidazole#

4 FILES SEARCHED...

L2 18 L1 AND SULFONATED POLYMER# AND BENZIMIDAZOLE#

=> s l2 and aromatic tetraamino compound# and aromatic carboxylic acid#

5 FILES SEARCHED...

L3 5 L2 AND AROMATIC TETRAAMINO COMPOUND# AND AROMATIC CARBOXYLIC ACID#

=> s l3 and inert gas? and temperature#

4 FILES SEARCHED...

5 FILES SEARCHED...

L4 5 L3 AND INERT GAS? AND TEMPERATURE#

=> d l4 1-5

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L4 ANSWER 1 OF 5 EPFULL COPYRIGHT 2010 EPO/FIZ KA/LNU on STN

AN 2003:70266 EPFULL
 DUPD 20040310 DUPW 200411

TIEN PROTON-CONDUCTING MEMBRANE AND THE USE THEREOF.
 TIFR MEMBRANE CONDUCTRICE DE PROTONS ET SON UTILISATION.
 TIDE PROTONENLEITENDE MEMBRAN UND DEREN VERWENDUNG.
 IN CALUNDANN, Gordon, 1275 Rock Avenue, North Plainfield, NJ 07060, US;
 SANSONE, Michael, J., 73 Cornell Avenue, Berkeley Heights, NJ 07927, US;
 UENSAL, Oemer, Suedring 387, 55128 Mainz, DE;
 KIEFER, Joachim, Scheidener Strasse 2, 66679 Losheim am See, DE

PA Celanese Ventures GmbH, (Ventures GmbH, Celanese), , 65926 Frankfurt am Main, DE

PAN 3179301
 DT Patent
 LAF German
 LA German
 LAP German
 TL German; English; French

PIT WOAI International application published with search report

PI WO 2004003061 A1 20040108

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL
 EXTENSION STATES: AL LT LV MK

AI EP 2003-740253 A 20030614
 WO 2003-EP6308 A 20030614

PRAI DE 2002-10228657 A 20020627

IC.VER 7

ICM C08J005-00

ICS C08J005-22; H01M008-10; H01M004-00; C08G073-00

AN 2003:70266 EPFULL ED 20050406 UP 20060223
 DUPD 20060208 DUPW 200606

TIEN PROTON-CONDUCTING MEMBRANE AND THE USE THEREOF.
 TIFR MEMBRANE CONDUCTRICE DE PROTONS ET SON UTILISATION.
 TIDE PROTONENLEITENDE MEMBRAN UND DEREN VERWENDUNG.
 IN CALUNDANN, Gordon, 1275 Rock Avenue, North Plainfield, NJ 07060, US;
 SANSONE, Michael, J., 73 Cornell Avenue, Berkeley Heights, NJ 07927, US;
 UENSAL, Oemer, Suedring 387, 55128 Mainz, DE;
 KIEFER, Joachim, Scheidener Strasse 2, 66679 Losheim am See, DE

PA Pemeas GmbH, 65926 Frankfurt am Main, DE

PAN 4944860

AG Luderschmidt, Schueler & Partner GbR, Patentanwalte, Industriepark
 Hoechst, Geb. F821, 65926 Frankfurt am Main, DE

AGN 101418
 DT Patent
 LAF German
 LA German
 LAP German
 TL German; English; French

PIT EPAI Application published with search report

PI EP 151981 A1 20050406
 WO 2004003061 20040108

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE
 SI SK TR

AI EP 2003-740253 A 20030614
 WO 2003-EP6308 A 20030614

PRAI DE 2002-10228657 A 20020627

IPCI C08J0005-00 [I,A]; C08J0005-22 [I,A]; H01M008-10 [I,A];

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	H01M0004-00	[I,A]	C08G0073-00	[I,A]	
	C08J0005-00	[I,C*];	C08J0005-20	[I,C*];	H01M0008-10 [I,C*];
	H01M0004-00	[I,C*];	C08G0073-00	[I,C*]	

AN 2003:70266 EPFULL ED 20060629 UP 20091021
 DUPD 20091021 DUPW 200943

TIEN PROTON-CONDUCTING MEMBRANE AND THE USE THEREOF.
 TIFR MEMBRANE CONDUCTRICE DE PROTONS ET SON UTILISATION.
 TIDE PROTONENLEITENDE MEMBRAN UND DEREN VERWENDUNG.
 IN CALUNDANN, Gordon, 1275 Rock Avenue, North Plainfield, NJ 07060, US;
 SANSONE, Michael, J., 73 Cornell Avenue, Berkeley Heights, NJ 07927, US;
 UENSAL, Oemer, Suedring 387, 55128 Mainz, DE;
 KIEFER, Joachim, Scheidener Strasse 2, 66679 Losheim am See, DE

PA Pemeas GmbH, 65926 Frankfurt am Main, DE
 PAN 4944860
 AG Luderschmidt, Schueler & Partner, Patentanwalte Industriepark Hoechst,
 Gebaeude F 821, 65926 Frankfurt, DE

AGN 101414
 DT Patent
 LAF German
 LA German
 LAP German
 TL German; English; French
 PIT EPB1 Granted patent
 PI EP 1519981 B1 20060628
 WO 2004003061 20040108

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE
 SI SK TR

AI EP 2003-740253 A 20030614
 WO 2003-EP6308 A 20030614

PRAI DE 2002-10228657 A 20020627
 REP US 3313783 A (INID56)
 US 5218076 A (INID56)
 US 5525436 A (INID56)

REN (1) OSAHANI J A ET AL: "SYNTHESIS AND PROCESSING OF HETEROCYCLIC
 POLYMERS AS ELECTRONIC, OPTOELECTRONIC, AND NONLINEAR OPTICAL MATERIALS.
 4 NEW CONJUGATED RIGID-ROD POLY(BENZOBIS(IMIDAZOLE)S" MACROMOLECULES,
 AMERICAN CHEMICAL SOCIETY. EASTON, US, Bd. 28, Nr. 4, 13. Februar 1995
 (1995-02-13), Seiten 1172-1179, XP000490475 ISSN: 0024-9297 (INID56)

IPCI C08J0005-00 [I,A]; C08J0005-22 [I,A]; H01M0008-10 [I,A];
 H01M0004-00 [I,A]; C08G0073-00 [I,A]
 C08J0005-00 [I,C*]; C08J0005-20 [I,C*]; H01M0008-10 [I,C*];
 H01M0004-00 [I,C*]; C08G0073-00 [I,C*]

L4 ANSWER 2 OF 5 USPATFULL on STN
 AN 2007:62900 USPATFULL
 TI Proton-conducting polymer membrane
 containing polymers with sulfonic acid groups that are covalently bonded
 to aromatic groups, membrane electrode unit, and use thereof in fuel
 cells
 IN Kiefer, Joachi, Losheim am See, GERMANY, FEDERAL REPUBLIC OF
 Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF
 PA PEMEAS GMBH, FRANKFURT, GERMANY, FEDERAL REPUBLIC OF (non-U.S.
 corporation)
 PI US 20070055045 A1 20070308
 AI US 2004-570637 A1 20040904 (10)
 WO 2004-EP9900 20040904
 20060303 PCT 371 date
 PRAI DE 2003-10340927 20030904

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DT Utility
FS APPLICATION
LN.CNT 1474
INCL INCLM: 528/373.000
NCL NCLM: 528/373.000
IC IPCI C08G0075-00 [I,A]
IPCR C08G0075-00 [I,C]; C08G0075-00 [I,A]; C08J0005-20 [I,C*];
C08J0005-22 [I,A]; H01M0004-86 [N,C*]; H01M0004-86 [N,A];
H01M0004-90 [N,C*]; H01M0004-92 [N,A]; H01M0008-10 [I,C*];
H01M0008-10 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 5 USPATFULL on STN
AN 2006:67231 USPATFULL
TI Proton-conducting membrane and the use thereof
IN Calundann, Gordon, North Plainfield, NJ, UNITED STATES
Sansone, Michael J, Berkeley Heights, NJ, UNITED STATES
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF
Kiefer, Joachim, Losheim am See, GERMANY, FEDERAL REPUBLIC OF
PI US 20060057449 A1 20060316
AI US 2003-519281 A1 20030614 (10)
WO 2003-EP6308 20030614
20050804 PCT 371 date
PRAI DE 2002-10228657 20020627
DT Utility
FS APPLICATION
LN.CNT 976
INCL INCLM: 429/033.000
INCLS: 521/027.000; 429/314.000
NCL NCLM: 429/033.000
NCLS: 429/314.000; 521/027.000
IC IPCI C08J0005-22 [I,A]; C08J0005-20 [I,C*]; H01M0008-10 [I,A]
IPCR C08J0005-20 [I,C]; C08J0005-22 [I,A]; B01D0071-00 [I,C*];
B01D0071-62 [I,A]; B01D0071-82 [I,A]; C08G0073-00 [I,C*];
C08G0073-06 [I,A]; C08G0073-08 [I,A]; C08G0073-18 [I,A];
C08G0073-22 [I,A]; H01M0008-10 [I,C]; H01M0008-10 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 5 USPATFULL on STN
AN 2005:280748 USPATFULL
TI Proton-conducting polymer membrane
comprising a polymer with sulphonic acid groups and use thereof in fuel
cells
IN Kiefer, Joachim, Losheim am See, GERMANY, FEDERAL REPUBLIC OF
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF
Calundann, Gordon, North Plainfield, NJ, UNITED STATES
PI US 20050244695 A1 20051103
US 7332530 B2 20080219
AI US 2003-523373 A1 20030731 (10)
WO 2003-EP8462 20030731
20050323 PCT 371 date
PRAI DE 2002-10235356 20020802
DE 2003-10235357 20020802
DT Utility
FS APPLICATION
LN.CNT 1441
INCL INCLM: 429/033.000
INCLS: 521/027.000
NCL NCLM: 521/027.000; 429/033.000

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NCLS: 429/030.000; 429/033.000; 521/030.000; 526/286.000

IC [7]
ICM H01M008-10
ICS C08J005-22
IPCI H01M0008-10 [ICM,7]; C08J0005-22 [ICS,7]; C08J0005-20 [ICS,7,C*]
IPCI-2 C08J0005-22 [I,A]; C08J0005-20 [I,C*]; H01M0008-10 [I,A]
IPCR C08J0005-20 [I,C]; C08J0005-22 [I,A]; B01D0067-00 [I,C*];
B01D0067-00 [I,A]; B01D0069-00 [I,C*]; B01D0069-14 [I,A];
B01D0071-00 [I,C*]; B01D0071-62 [I,A]; B01D0071-64 [I,A];
B01D0071-72 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A];
C08G0073-00 [I,C*]; C08G0073-06 [I,A]; C08G0073-08 [I,A];
C08G0073-10 [I,A]; C08G0073-18 [I,A]; C08G0073-22 [I,A];
C08G0079-00 [I,C*]; C08G0079-04 [I,A]; H01M0008-10 [I,C];
H01M0008-10 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 5 USPAT2 on STN
AN 2005:280748 USPAT2
TI Proton-conducting polymer membrane
comprising a polymer with sulphonic acid groups and use thereof in fuel
cells
IN Kiefer, Joachim, Losheim am See, GERMANY, FEDERAL REPUBLIC OF
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF
Calundann, Gordon, North Plainfield, NJ, UNITED STATES
PA Celanese Ventures GmbH, Frankfurt am Main, GERMANY, FEDERAL REPUBLIC OF
(non-U.S. corporation)
PI US 7332530 B2 20080219
WO 2004015803 20040219
AI US 2003-523373 20030731 (10)
WO 2003-EP8462 20030731
20050323 PCT 371 date
PRAI DE 2002-10235356 20020802
DE 2002-10235357 20020802
DT Utility
FS GRANTED
LN.CNT 1491
INCL INCLM: 521/027.000
INCLS: 521/030.000; 429/030.000; 429/033.000; 526/286.000
NCL NCLM: 521/027.000; 429/033.000
NCLS: 429/030.000; 429/033.000; 521/030.000; 526/286.000
IC IPCI H01M0008-10 [ICM,7]; C08J0005-22 [ICS,7]; C08J0005-20 [ICS,7,C*]
IPCI-2 C08J0005-22 [I,A]; C08J0005-20 [I,C*]; H01M0008-10 [I,A]
IPCR C08J0005-20 [I,C]; C08J0005-22 [I,A]; B01D0067-00 [I,C*];
B01D0067-00 [I,A]; B01D0069-00 [I,C*]; B01D0069-14 [I,A];
B01D0071-00 [I,C*]; B01D0071-62 [I,A]; B01D0071-64 [I,A];
B01D0071-72 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A];
C08G0073-00 [I,C*]; C08G0073-06 [I,A]; C08G0073-08 [I,A];
C08G0073-10 [I,A]; C08G0073-18 [I,A]; C08G0073-22 [I,A];
C08G0079-00 [I,C*]; C08G0079-04 [I,A]; H01M0008-10 [I,C];
H01M0008-10 [I,A]

EXF 521/27; 521/30; 429/33; 429/30; 526/286
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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